

January 17, 1958
Job N-182
N.B.B.

CONSTRUCTION OUTLINE SPECIFICATIONS

FOR

CENTRAL INTELLIGENCE AGENCY

HEADQUARTERS BUILDING

LANGLEY, VIRGINIA

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January 17, 1958

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Construction Outline
Specifications - 1

1. SCOPE:

A. The following outline specification describes the general construction of Main Building, Auditorium, Cafeteria, Power House, two entrance Gate Houses and Nitrate Film Storage House.

2. CODE REQUIREMENTS:

A. The National Building Code (1955) of the National Board of Fire Underwriters, shall govern the work.

3. ENGINEERS OFFICE:

A. Construct Type "D" Engineer's office as shown on Public Building Service standard detail drawing #6-2-33-A.

4. DEMOLITION:

A. Demolish present two (2) story frame house existing on Southwest corner of property. Fill in area as necessary to meet new grades and provide top soil and seeding to match adjoining areas.

5. SITE WORK BY OTHERS

A. NOTE: The main building site has been leveled by others to elevation + 215'-0" and the Power House and Sub-Station site will be leveled to elevations as shown on Site Plan.

B. Grading of entire property outside the pay lines around new structures as indicated, foundation base course for all roads, walks and parking areas and the drainage of all the above areas will be done by others.

6. EXCAVATION:

A. Include all excavation of earth, rock, boulders and obstructions necessary for the installation of all foundation walls, sub-drainage system, floor construction on earth, pits and trenches and conveyor and duct tunnels, for exterior steps and terraces where adjacent to or integral with structures and for installation of utility lines underground from Power House to the various buildings, and for boiler fuel storage tanks located underground. Stack all topsoil.

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EXCAVATION (Cont'd)

B. Include all backfilling around walls and grading immediately around structures to pitch water away from same.

C. Include all excavation required for the installation of mechanical trades within the areas covered by the structures.

D. Include all bracing and sheet piling of banks and all pumping required to keep excavations free of water until foundations are installed.

7. FOUNDATIONS:

A. All foundations for all structures shall be constructed of reinforced concrete, spread footing for walls and columns on soil of suitable bearing quality.

B. Include footing drain of 6" dia. agricultural clay tile and porous fill at bottom of footing around all perimeter walls and court walls and under floor slabs and disposal of same in a suitable manner.

C. Provide porous fill of gravel not less than 6" under all concrete slab construction on ground.

D. Exterior of foundation walls and footings of structure below grade shall be dampproofed with (3) plies of rag felt and four (4) moppings of hot pitch. On last mopping apply a 1" inch thick layer of asphalt impregnated celotex protection.

8. STRUCTURAL FRAME:

A. Structural frame of main structure including interior and exterior columns and drop heads, two way rib system of floor and roof construction, projecting canopies, etc. shall be constructed of reinforced concrete.

B. Auditorium shall be of thin wall reinforced controlled concrete.

C. Cafeteria shall be constructed of structural steel arches and intermediate framing with #18 gauge cellular metal roof deck. Provide positive vapor seal by caulking interlocking lips of deck and caulking countersunk end lap joints.

D. Power House shall be constructed of structural steel with reinforced concrete roof and floor slabs.

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STRUCTURAL FRAME (Cont'd)

E. Entrance Gate Houses and Nitrate Film Storage House shall be constructed of reinforced concrete floor and roof slab.

F. All forms for walls where exposed surfaces of spandrel beams, canopies and other exposed concrete surfaces shall be of plywood and surfaces after stripping left with a smooth even finish.

G. Floor construction on earth of Basement shall be constructed of 6" inch thick concrete slab with integral cement finish included, reinforced and laid over a porous fill covered with a layer of metal reinforced waterproof paper. Porous fill shall be drained.

H. Floor construction on earth of first floor Cafeteria, Auditorium and Passages, over unexcavated areas shall be of reinforced concrete laid over porous fill. Fill shall be covered with a layer of metal reinforced waterproof paper.

I. Floor construction on earth of Ground Floor over unexcavated areas shall be constructed of reinforced concrete slab laid over porous fill. Top of this slab shall be waterproofed with 3 ply felt and pitch membrane waterproofing covered by a cement protection coat 1" inch thick; over protection coat install fill and finish as hereinafter specified.

J. All pits and trenches below Basement floor level shall be waterproofed with metallic cement waterproofing.

K. Unless otherwise indicated, roof slabs will receive no fill and top surface shall be finished smooth to receive waterproofing.

L. Cast in concrete structure all flashing reglets and inserts of proper type for the securement of the work of other trades.

9. CONCRETE FILL AND CEMENT FINISH:

A. Install expanded shale concrete fill or other lightweight aggregate concrete of thickness indicated with 1" cement finish over all floor construction, except Basement floor and Penthouse floor. Such lightweight aggregate concrete shall be non-corrosive type and shall weigh not more than 80 lbs. per cubic foot and develop a minimum crushing strength of not less than 500 lbs. at the end of 28 days. Under floor duct system will be installed in this fill.

B. Install cement base where called for on finish schedule.

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CONCRETE FILL AND CEMENT FINISH (Cont'd)

C. Provide 6 X 6 10/10 welded reinforcing mesh galvanized over all underfloor ducts, also over all conduits and pipes within 1-3/4" of finished floor.

10. EXTERIOR WALLS:

A. Enclosure walls and court walls of Main Building to extent as indicated, shall be constructed of architectural precast stone panels formed in story height units with openings provided for metal sash. Each panel shall be anchored to spandrel beams, top and bottom, by means of angles bolted through slab and to columns by straps to inserts all as indicated. All inserts in units and structures and all angles, bolts, straps for securement, shall be hot-dip galvanized.

B. Inserts shall be provided in panel for anchorage of metal sash and spaced 2'-0" on centers.

C. All precast stone shall have a facing portion composed of properly crushed and graded opaque and translucent quartz combined with white and/or gray cement as per approved sample.

D. All precast panels shall be reinforced with built-up galvanized welded steel reinforcement, all carefully engineered for all structural stresses and temperature changes.

E. All precast stone shall have a minimum compressive strength of 7500 lbs. psi and a maximum absorption of 5 percent both at 28 days of age, when tested by a recognized testing laboratory.

F. All facing panels shall be set in non-staining waterproof cement mortar, filling full all joints. Joints that are not accessible shall be filled with same mortar but application shall be made by using a grout pump of approved type. Face joints shall be raked out to a depth of 3/4" and then caulked with "Thiokol" caulking compound to the full depth and tooled.

G. Three exterior walls of Power House shall be constructed of reinforced concrete scored as shown on drawings. The south wall shall be constructed of concrete blocks stuccoed and scored as shown on drawings.

The exterior walls of Cores A, B, C, and D and the exterior walls of the Pent Houses shall be constructed of reinforced concrete and scored as shown on the elevations.

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EXTERIOR WALLS (Cont'd)

H. Nitrate Film Storage Building walls shall be constructed of 8" thick masonry block with exterior surfaces treated with Acrylic Resin as specified for Main Building. Foundations and roof slab reinforced concrete.

I. Gate Houses shall be constructed of reinforced concrete foundations, bulkheads, floor and roof.

J. After all panels have been set in place and joints caulked and surfaces cleaned down, all exposed surfaces of facing panels and all other exposed concrete surfaces of all buildings shall be given two (2) coats of colorless Acrylic Resin applied in accordance with manufacturer's specifications.

11. EXTERIOR WALL INSULATION, ETC.:

A. All exterior walls, both cast in place concrete and precast facing panels, shall be given a 1/8" thick asphaltic dampproofing into which a 1" thickness of "Fiberglas" or approved equal rigid insulation with positive vaporseal, shall be applied.

B. Ceiling of Nitrate Film Storage Building shall be insulated with 1-1/2" thickness of non-flammable mineral sprayed-on insulation.

C. Soffit over Second Floor exterior shall be insulated with 2" thick insulation with vaporseal.

12. ROOFING, WATERPROOFING AND SHEET METAL:

A. All roof surfaces of flat roofs and curved roof of Cafeteria shall be covered with a 4 ply 20 year Bonded built-up roofing with slag finish, laid over a two (2") inch thickness of rigid insulation over a two-ply felt and pitch vapor barrier.

B. On metal decking over Cafeteria same insulation shall be installed but insulation shall be secured to deck by means of metal clips wedged into channels of decking and supplied by deck manufacturer. Provide one (1) clip for every two (2) square feet of insulation.

C. Alternate: State difference in cost if all roof surfaces are finished with white marble chips in place of slag, except Pent House roofs and dome of Auditorium.

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ROOFING, WATERPROOFING AND SHEET METAL (Cont'd)

D. Install four (4) ply felt and pitch waterproofing in Pent House fan rooms, Ground Floor fan rooms, Kitchen and Pantry areas where they occur over excavated areas below, on second slab under Ground Floor slab in toilets and slop sink closets over switchboard rooms in Basement. Waterproofing shall be carried up on walls in back of finish at least six (6") inches.

E. Over slab of Auditorium dome, install a two (2) ply felt and asphalt vapor barrier over which install a 2" thickness of rot-proof rigid insulation stud nailed to concrete, over which install a four (4) ply felt and pitch (special consistency) membrane waterproofing.

F. All flashings, except where indicated as stainless steel, 26 gauge, shall be 16 ounce lead coated copper for cap flashings, 20 ounce copper for base flashings and for covering of concrete copings. Flash around pipe standards of railings, flash at intersection of all roofs with vertical walls and parapets. Lead-coated copper covering of all projective canopies.

G. All flashings in contact with aluminum shall be #26 gauge stainless steel.

H. Provide counter Flashings at top of foundation wall dampproofing. Flashing shall be set in flashing reglets of same material as flashing.

13. AUDITORIUM DOME COVERING:

A. Over the membrane waterproofing heretofore specified, a one (1) inch thick cement protection coat shall be installed, reinforced with welded galvanized mesh installed continuously over the dome and ending at the foundation walls and welded at intervals to stainless steel plates bolted to the foundation walls. This protection coat shall be applied by Guniting or other approved method. Wired laps in the mesh shall be such as to develop the full strength of its members and mesh shall be blocked up with cement pads 1/2" above membrane before cement mixture is applied. Expansion joints shall be provided every 14'-0" each direction.

B. Stainless steel flashing at foundation and plastic tube weeps installed as indicated.

C. The finish surface of dome shall be 3/4" X 3/4" Italian vitreous mosaic tile of approved type and color, set on a cement and lime leveling and scratch coat over the protection coat previously specified.

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AUDITORIUM DOME COVERING (Cont'd)

D. Expansion joints extending through the thickness of tile and setting bed for same shall be provided directly over the scored joints in the protection coat, 14'-0" X 14'-0" o.c., approximately, and fill with "Thiokol" caulking compound under gun pressure and strike same as directed. All surfaces shall be clean at completion.

14. INTERIOR STAIRS:

A. Enclosed stairs shall be constructed of steel channel strings, steel risers with integral tread nosing of non-slip abrasive, steel pan treads and platforms, cement filled. Railings of horizontal steel pipe and newels.

B. Ornamental stairs shall have steel stringers, concealed steel treads and risers finished with terrazzo treads and risers, tubular aluminum railings with tubular standards and flush fittings.

C. All surfaces of stairs shall be given a shop coat of iron oxide or zinc chromate paint.

15. WINDOWS:

A. All sash shall be Heavy Intermediate Type Steel of dimensions shown on Drawings with removable glazing beads, out projecting type for cleaning and fixed type as shown on drawings. All members shall be of proper strength to meet Code Requirements. Hardware for operating sash shall be of manufacturer's standard, of highest quality, provide bronze cam with key latch and removable handle on all operating vents. Provide one handle for every 100 windows.

B. Access to decks shall be by means of tubular steel doors set in frames of assembly.

C. Fixed glass panels of Second and Seventh Floors, Cafeteria, and enclosure corridors to Auditorium and Cafeteria shall be constructed of steel rolled sections for frames and mullions provided with removable glazing beads.

D. All surfaces of all steel members shall be hot-dip galvanized and bonderized and shop painted. Glazing beads secured by means of stainless steel tap screws.

E. All window glass shall be 3/16" 'A' Quality and double strength flat drawn sheet glass as shown on drawings. All other sash and doors shall be glazed with 1/4" thick polished plate glass; 1/4" and 3/8" plate glass for Cafeteria, and Corridors to Cafeteria and Auditorium. See drawings for all glass thicknesses.

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WINDOWS (Cont'd)

- F. All glass shall be set in "Thiokol" glazing compound.
- G. Where interior partitions abut the mullions of fixed glass assemblies, a continuous metal closure shall be provided the full height.
- H. Provide frames for security grilles in certain rooms and areas as shown on schedule. Security grilles will be provided by others.
- I. Alternate Price: Submit alternate price substituting aluminum with aluminized finish in place of galvanized steel for all members of fixed and operating sash and assemblies on all floors. All members of equivalent strength as steel.

16. LATHING AND PLASTERING:

- A. All exterior walls shall be furred with metal furring braced to wall construction of 1" channels 12" on centers with runner at floor and ceiling. Lath shall be 3.4 pound expanded metal lath. All surfaces shall receive scratch and brown gypsum plaster with hard white finish.
- B. Furring and plaster will stop one (1") inch above suspended ceilings where they occur except in Security Rooms where masonry partitions extend to structural slab, then furring and plaster will extend to slab.
- C. Install wire lath and scratch and brown gypsum plaster to close in space around air conditioning pipes running through exterior wall furred piers. This closure shall be provided on one side of pier only and in Secured Rooms where masonry partitions occur.
- D. Provide metal furred and lathed suspended ceilings where indicated. Plastered the same as walls. Purlins shall be 1-1/2" angles or channels suspended 4'-0" X 4'-0" on centers from structural slab. Cross furr with 1" channels and lath as specified for metal wall facing. Plaster with scratch and brown gypsum and hard white finish except where acoustical tile is called for, the white finish is omitted.
- E. All masonry block partitions shall be plastered in gypsum with hard white finish. Omit plaster on inside of shafts, stairs, mechanical rooms, building maintenance shops, garage and incinerator rooms see Interior Finish F-12.
- F. Install metal lath strip over joints between masonry block partitions and columns.

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LATHING AND PLASTERING:

G. Special metal furred and plastered constructed wall panels shall be provided in Auditorium to obtain acoustical effect. These surfaces shall be lathed and plastered with scratch and brown gypsum plaster with hard white finish. All metal constructed catwalks shall be provided as indicated. All furred construction shall be kept free from edge contacts with concrete shell as detailed. Sprayed-on asbestos sound deadening shall be applied to interior surfaces of shell where called for.

17. INTERIOR PARTITIONS:

A. The Drawings indicate the extent of masonry partitions and all such partitions shall be carried up to structural slab above.

B. Provide fire rated masonry block partitions enclosing elevator, dumbwaiter and conveyor shafts; duct and pipe shafts; stair and toilet enclosure walls; corridors in Basement, Ground and First Floors; electric and telephone closets; mechanical rooms, storage rooms, shops, garage, kitchen, laboratories and incinerators.

C. Masonry block shall be steam cured cinder block or hollow structural clay tile.

NOTE: Rooms enclosed by 8" of masonry shall have the cores of the blocks filled with mortar. Not 8" walls in Basement.

D. Sub-dividing office partitions of masonry block where called for on Drawings.

E. Structural facing tile where called for in Interior Finish.

F. Except where masonry partitions are called for, all other sub-dividing interior partitions shall be plaster board with joints taped, secured to metal studs. Partition shall stop at underside of acoustical ceilings. Provide the following:

(1) 2-3/8" layers of plaster board each side of metal studs.

(2) Studs - 2-1/2" size 16" o.c. up to 10'-0" high
Studs - 3-1/2" size 16" o.c. up to 12'-0" high
Studs - 4" size 16" o.c. up to 14'-0" high

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INTERIOR PARTITIONS (Cont'd)

- (3) Anchor studs to furring of hung ceiling and add ceiling channels where necessary to pick up partitions. Provide wood blocking as required between top of acoustical ceilings and bottom of ceiling channels. As noted on drawings.

G. Low sub-dividing partitions 5'-8" high with tops 28" of glass and 5'-8" high wood doors. These partitions are also plaster board construction with steel studs as shown on drawings.

H. Alternate Price: Submit alternate price substituting metal partitions in place of partitions noted in F and G above.

18. TOILET COMPARTMENTS:

A. All toilet compartments and doors to same shall be constructed of hollow metal furniture steel with insulated core. All shall have baked enamel finish and shall be floor mounted and have chrome plated brass hardware.

19. INTERIOR FINISH SCHEDULE:

F-1 Office Spaces: Suspended ceiling acoustical tile. Floor 1/8" thick asphalt tile Class "C" patterns. Top set asphalt tile base 4" high. Walls painted.

F-2 Men and Women Toilet Rooms and Men's Vest. Floors ceramic tile.. Structural facing tile to ceiling. Suspended plastered ceiling, painted.

F-3 Janitor's Closet: Ceramic tile floor and glazed base. Keene's cement plaster walls. Exposed ceiling arch.

F-1 Public Corridors: (Except First Floor) Same as office spaces.

F-8 First Floor Main Public Corridors and Entrance Vestibules: Same as office spaces except suspended plaster ceilings painted.

F-4 First Floor Lobby and Vestibule: Suspended plastered ceiling painted. Terrazzo Floor. 7/8" thick marble wall linings floor to ceiling. Allow \$7.00 sq. ft. for domestic marble installed.

F-5 Kitchens and Pantries: Quarry tile floor, walls structural facing tile to ceiling, base on equipment platforms of structural facing tile. Aluminum pan, acoustical ceilings.

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INTERIOR FINISH SCHEDULE (Cont'd)

- F-6 Auditorium: See drawings for finishes.
- F-7 Cafeteria and Private Dining Rooms: Grease proof asphalt tile floor and base. Concealed type suspended acoustical tile to follow contour of curved roof in Cafeteria. Continuous metal enclosures over exterior air conditioning elements in Cafeteria. See drawings for special finishes in Cafeteria.
- F-1 Mail Conveyor Rooms and Freight Elevator Lobbies: Same as office spaces.
- F-8 Women's Powder Room and Snack Bar: Same as office spaces except suspended plaster ceiling painted.
- F-9 P.B.S. Gear Rooms: Structural facing tile to slab. Cement floor. Exposed ceiling slab construction.
- F-10 Laboratories: Structural facing tile to ceiling. Plaster ceiling. Acid-resistant 1/8" Vynal Asphalt tile floor.
- F-11 Clinic, Dark Rooms, Photo Labs., Reproduction Rooms, Photostat Rooms: Same as office spaces except Acid-Resistant 1/8" Vynal Asphalt tile floor and base.
- F-1 Class Rooms, I.B.M. Rooms, Libraries and Stack Rooms, Telephone Switchboard Room, Telephone Equipment Rooms, Conference Rooms, Drafting Rooms, Project Rooms, Projection Rooms, Work Rooms, Interview Rooms, Printing Press Rooms, Mail Rooms, Camera Rooms, Plate Making Rooms, File Rooms, Storage Rooms and Shops except those used for building maintenance and noted in finish F-12 and all other rooms not listed below under finish F-12: Same finishes as office spaces.
- F-12 Paint Shop, Carpenter Shop, Electrical Shop, Plumbing Shop, Machine Shop, Elevator Shop, Trash Room, Public Buildings Service Storage, All Rooms and spaces in Basement and Penthouses and Stair Wells: Cement floors, unplastered masonry walls to slab and structural ceilings painted.
- F-13 Locker Rooms: Painted unplastered masonry walls to slab; asphalt tile floor; exposed slab painted.
- F-14 Shower Compartments: Structural facing tile walls and curbs. (tile walls for executive showers on 7th floor) Ceramic tile floor. Sheet lead pans. Hung Keene's cement plastered ceilings.

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INTERIOR FINISH SCHEDULE (Cont'd)

F-15 Enclosed Corridors to Auditorium and Cafeteria: Asphalt tile floor and base. Suspended plaster ceiling. Continuous metal enclosures over air condition units.

F-16 Stairs: Cement floor, unplastered masonry walls to slab and exposed slab painted.

F-17 Private Toilets and Private Showers: Ceramic tile floor and walls, suspended Keene Cement ceiling, sheet lead pans.

20. ACOUSTICAL CEILINGS:

A. Acoustical tile ceilings in Elevator Corridors, Corridors in Cores and Freight Elevator Corridors and in Cafeteria shall be dry suspended concealed type system.

B. Dry suspended type ceilings using "Acoustone" or equal mineral tile set on exposed tee runners for suspended ceilings and applied to concrete or plaster surfaces where called for.

C. Flame spread rating for both faces of acoustical tile shall not exceed 75.

21. DOORS AND FRAMES:

A. Exterior and Vestibule Doors and Frames: All shall be aluminum including doors in metal and glass walls framed with steel except doors on Second and Seventh Floor Terraces. Exterior and Vestibule aluminum doors and frames of 1/8" thick extruded alumilited aluminum. Glazed as shown with stock push and pull bars. Aluminum saddles and "Rixson" floor or transom hinges. Glazed transoms where indicated.

B. Exterior doors and frames on Second and Seventh Floor Terraces and Pent House of Main Building, and exterior swing doors of Gate Houses, Nitrate Film Storage Building and Boiler House shall be hollow metal, using ingot iron.

C. Fire Stairs and Shafts: Hollow metal doors and frames, flush type, Class B. Code Rating.

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DOORS AND FRAMES (CONT'D)

D. Public Corridors in Basement and Ground and First Floors, Mechanical Rooms, Shops, Storage, Kitchen, Incinerators, Conveyor, Laboratories and Garage: Flush hollow metal doors and frames, Class B Code Rating. Class A for Incinerator Room only.

E. Public Corridors above First Floor: Hollow metal doors and frames, flush type, no rating.

F. Doors in Plaster Board Office Partitions: Hollow metal frames, cellular Flush hardwood veneer doors.

G. Doors in Masonry Office Partitions: Hollow metal doors and frames flush type, Class B. Code Rating.

H. Vault Doors: Having one hour Fire Underwriters' Label shall be provided in Storage Rooms enclosed by 8" thick masonry walls. There will be a total of twenty (20) of these doors.

I. Elevator Fronts: Passenger Elevators, flush hollow metal by-parting doors and hollow metal frames. Freight, hollow metal and two-speed doors. All Class B, Code Rating.

J. Floor Treadle type pneumatic doors from kitchen and pantries to dining areas.

22. WALK-IN REFRIGERATORS:

A. Masonry walls, ceilings and floors of all walk-in refrigerators shall be insulated with two (2) layers of two (2") inch thick cork insulation and surfaces lathed and plastered with cement plaster.

B. Ceilings shall be finished with smooth trowelled cement plaster. Floors finished with quarry tile laid in cement mortar. Walls shall be finished with ceramic glazed facing tile.

C. Doors to these spaces shall be wood faced both sides, covered with stainless steel. Rebated wood frames covered with stainless steel. Doors shall be insulated with cork core. All hardware brass chrome plated. Neoprene gaskets the perimeter of doors.

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23. VENETIAN BLINDS:

A. Generally, venetian blinds provided throughout, surface mounted type, aluminum slats, plastic tape, steel head. Special blinds in Cafeteria.

24. EXTERIOR RAILINGS:

A. All exterior steps shall be provided with railings constructed of aluminum (alumilited), round tubular sections for both horizontal and vertical members with flush fittings set in inserts in masonry and properly flashed with stainless steel.

B. Provide alumilited aluminum railings of rectangular tubular sections for both horizontal and vertical members with flush fittings for areaways and 7th floor roof terraces flashed with stainless steel.

25. GRANITE STEPS AND PAVING (MAIN ENTRANCE):

A. Where indicated on Drawings, install granite steps and platform paving. Steps shall be cut from the solid granite and provided with wash and seats. Finish of steps 6 cut, set on concrete foundation.

B. Paving shall be in pattern as shown, 2 to 3 inches thick, set in cement mortar on a concrete slab. Finish shall be rough sawn.

C. Granite shall be "Cold Spring Red", by Cold Spring Granite Co., "Royal Red" by Royal Granite Co., St. Cloud, Minn., or "Cherokee" by Georgia Marble Co., Atlanta, Georgia. Granite for cornerstone shall be a light grey, to be selected.

26. RADIATOR AND AIR CONDITIONING ENCLOSURES:

A. Provide and install over exterior wall air conditioning units. They shall be provided under each window between piers whether A. C. unit exists in opening or not.

B. Provide continuous enclosures in 2nd and 7th floors, enclosed corridors to Auditorium and Cafeteria and in Cafeteria as shown in drawings.

C. Enclosures shall be formed of No. 12 and 16 gauge furniture steel shop painted. Provide streamline grille in front and adjustable grilles on top. Front shall be made removable.

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27. AUDITORIUM SEATS, ETC.:

- A. Provide 500 lecture type semi-upholstered with spring arch seats.
- B. Provide projection screen, to be mechanically operated in slot and pit in floor of platform.
- C. Provide fuseable automatic metal shutters set in metal panels in wall of Projection Room.

28. MISCELLANEOUS IRON AND METAL WORK:

- A. Provide and install the following items with shop coat of Zinc Chromate paint:
 - (1) All access door required for mechanical traces.
 - (2) Ladders to all elevator and mechanical pits. Ships ladders and gooseneck type to duct and conveyor tunnels and to roofs.
 - (3) Gratings, steel bar type, set in frame and locked access sections where shown on drawings.
 - (4) Trench covers, set in frame and flush with finish floor surface, sectional, with recessed lifting handles.
 - (5) Install 1/4" steel plate wall and column protection at Loading Platforms, also wood and steel bumper combination.
 - (6) Loose lintels over doors over 3'-0" in width in masonry partitions.
 - (7) Steel railings and miscellaneous stairs shown on drawings
- B. Provide and install the following items constructed of non-ferrous metal:
 - (1) Aluminum louvers and screens, leakproof type, in Basement, Ground and Pent House Fan Rooms and in Power House.

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MISCELLANEOUS IRON AND METAL WORK (Cont'd)

- (2) Electrically operated roll-up doors for loading docks, Garage entrance and Power House. All face work of aluminum Kinnear or approved equal manufacture.
- (3) Provide and set one (1) tapered aluminum pipe flag pole complete with pulleys, ropes, etc., mounted in reinforced concrete bases.

29. TOILET ROOM ACCESSORIES:

A. See Plumbing Outline Specification for toilet paper holders, coat hooks, soap dispensers and paper towel cabinets.

B. Include the following items:

- (1) 1/4" thick copper backed plate glass mirror set in narrow chrome plated brass frames in all Men's Toilet Rooms. The mirrors shall be 2'-1" high set over lavatories and shall be the same length as the group of lavatories. (no mirrors over lavatories in Women's Toilets.)
- (2) 9" deep 9'-0" long stainless steel powder shelf with 2'-1" high plate glass mirror the length of shelf in each Women's Powder Room, mirror and frame as specified for Men's Toilets. See Public Buildings Service Standard Detail No. 6-13-31B
- (3) Shelf for handbags, etc., attached to door of each Women's W. C. enclosure as shown on Public Buildings Service Standard Detail No. 6-13-30A.

30. HARDWARE:

A. Provide and install the following hardware for all interior doors; Aluminum heavy duty cylinder lock and latch sets, exposed type steel door closers, steel butts 1-1/2 pairs to each door. Doors to offices enclosed by Plaster Board Partitions will not require closers.

B. Provide stock grooved aluminum saddles at all interior door openings where there is a change of floor materials between rooms.

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HARDWARE (Cont'd)

C. Hardware for exterior and vestibule aluminum doors specified under Section 21-A.

31. PAINTING:

A. All exposed steel, miscellaneous iron, stairs, etc., shall be given two (2) coats of rust inhibitive paint in addition to shop coat.

B. Other exposed steel surfaces such as radiator and air conditioning enclosures, sash, door bucks, etc. shall receive two (2) coats of metal enamel in addition to shop coat.

C. Hollow Metal Doors and Frames will be provided with baked prime finish by factory and painted two coats on job.

D. Masonry walls shall receive two (2) coats of masonry paint.

E. Plaster surfaces shall receive one (1) coat of primer sealer and two (2) coats of lead and oil paint.

32. SEPARATE PRICE:

A. State amount to be deducted from Bid if the complete construction of Auditorium and glass enclosed Corridor leading to same are omitted.

33. SPECIAL REQUIREMENT:

A. Stainless steel electric equipment for Kitchens and Pantries.

B. A pneumatic tube system..

C. A.D.T. System

D. Incinerators (heavy duty type) and Chutes.

E. Conveyors

F. Dumbwaiters

G. Lead lining for walls of five (5) Rooms in First Floor. Lead lining for walls, floors and ceiling for Laboratory in Fifth Floor.

H. Metal adjustable dock ramps in Loading Docks.